

HOPE'S STEEL SUB-FRAMES

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1818 HOPE'S 1935

STEEL *Sub*-FRAMES

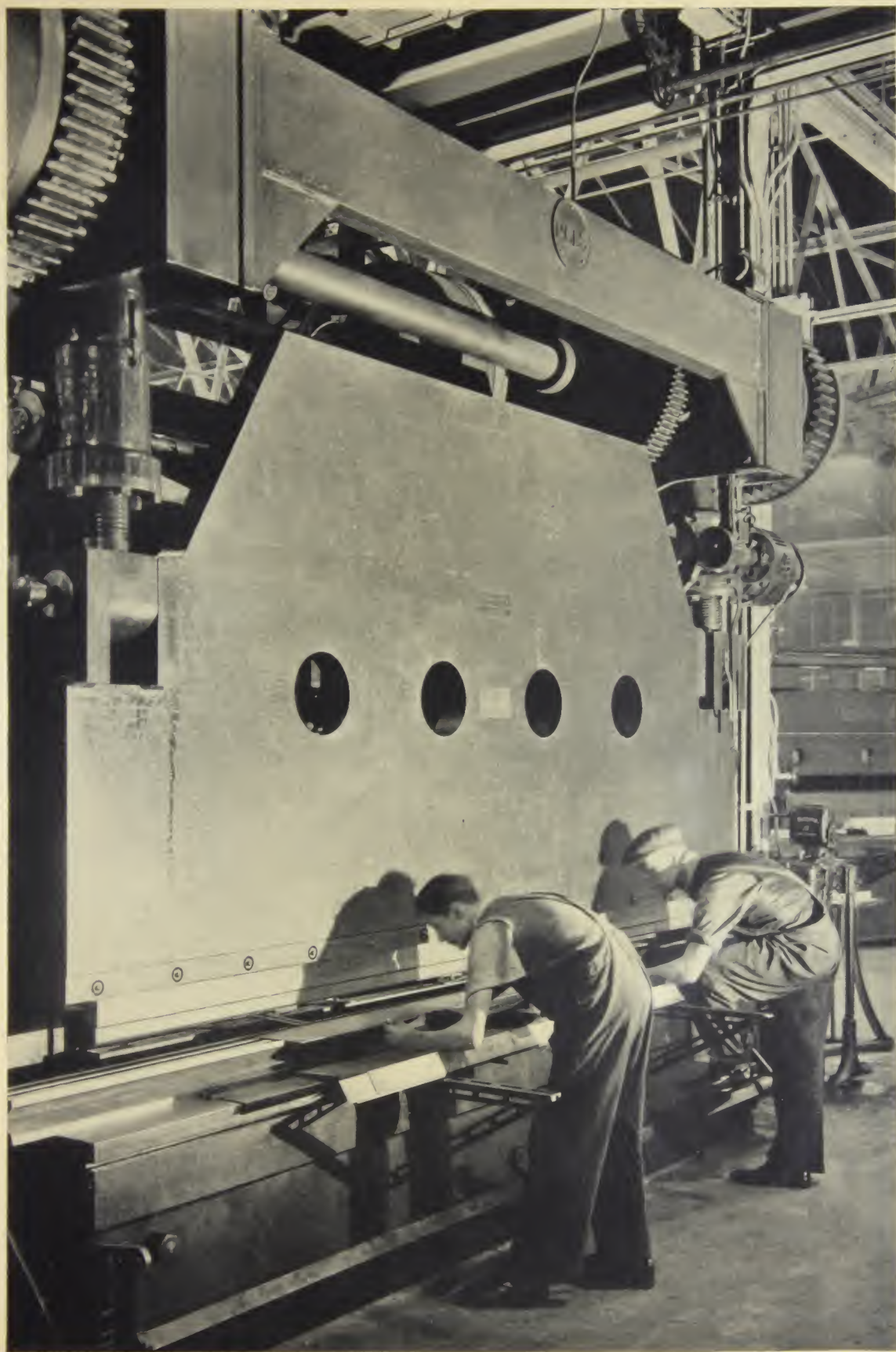
WE have installed a new plant for the manufacture of metal sub-frames for windows and doors. This plant will enable us to produce frames of a great variety of section and thickness of metal, affording a wide choice in design.

We have demonstrated the use of sub-frames in several important contracts during the last two years, and these advantages may be briefly stated as follows:

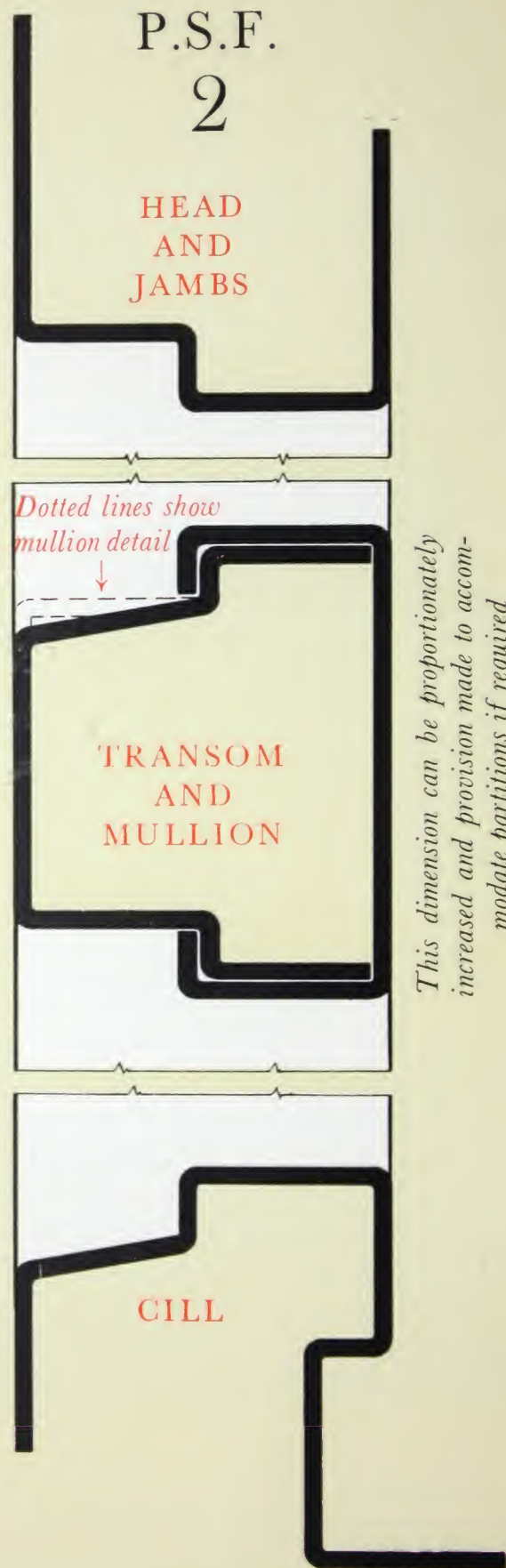
- (1) The sub-frames may be 'built in' or installed immediately after the window openings are formed. The plastering and flooring can then be finished so that the windows can be set and glazed floor by floor under clean conditions.
- (2) The use of sub-frames is essential where our patent cable gear is employed, as they provide the necessary width at the jamb and the head and afford a secure fixing.
- (3) Where double windows are required for the exclusion of sound, the employment of sub-frames simplifies construction.
- (4) Rebated mullions can be constructed of sufficient width to accommodate any of the standard size partition slabs.
- (5) The construction of windows of large size with architectural features is simplified by the appropriate use of pressed metal, either in steel or bronze.

Decorative ornament, such as rosettes, bosses, caps and bases can be easily applied.

The photograph on the opposite page shows one of the giant presses in the new factory block which we have recently erected at Smethwick to do all our pressed steel work.



HOPE'S *Steel*

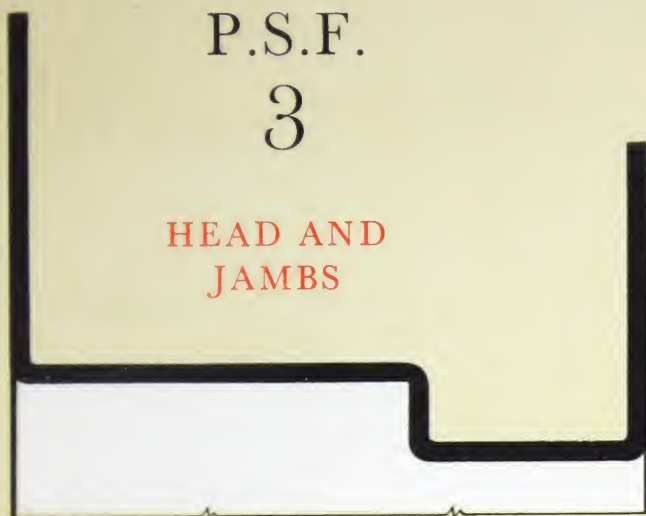


*This dimension can be proportionately
increased and provision made to accom-
modate partitions if required*

SUB-FRAMES

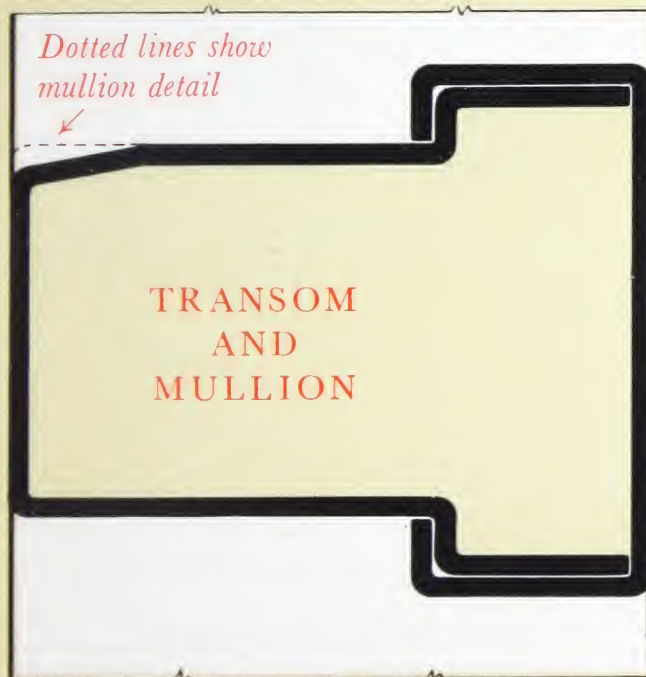
P.S.F.
3

HEAD AND
JAMBS

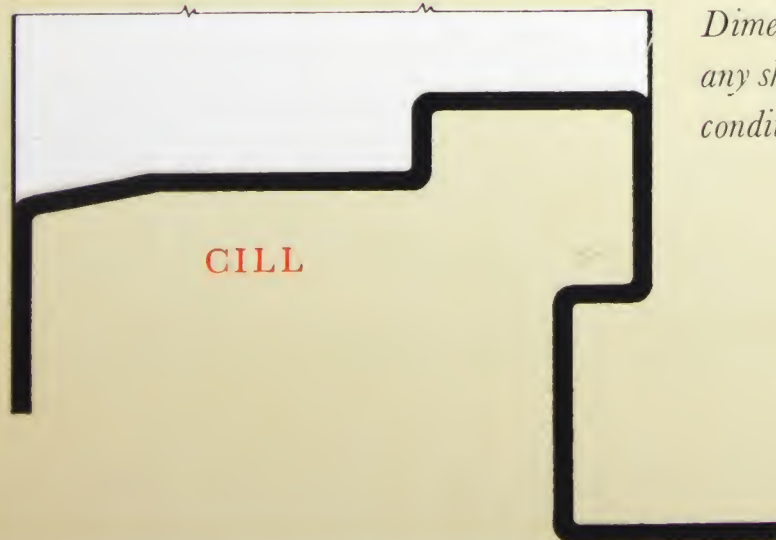


*Dotted lines show
mullion detail*

TRANSOM
AND
MULLION



CILL



FULL SIZE SECTIONS

SPECIFICATION

Made from best quality steel sheet from 14 gauge to $\frac{3}{16}$ " steel plate.

Sizes and shapes are guaranteed to be accurate.

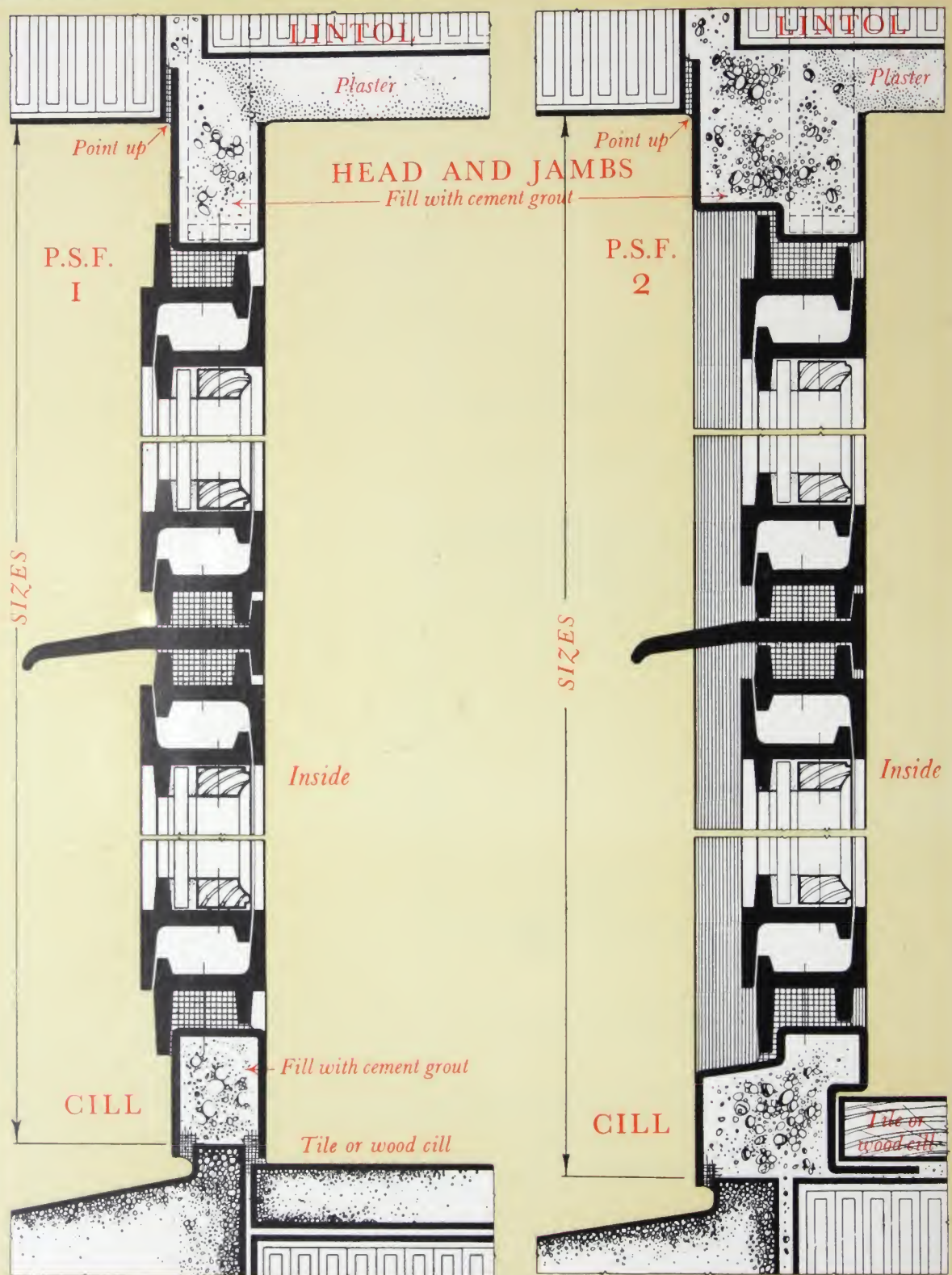
All angles and butt joints are welded and neatly cleaned off.

FINISH. Painted with red oxide paint stoved on at 250° F. Frames may be sherardized if required at slight extra cost.

The steel sub-frames illustrated in this Catalogue are the profiles in general use to suit ordinary building requirements.

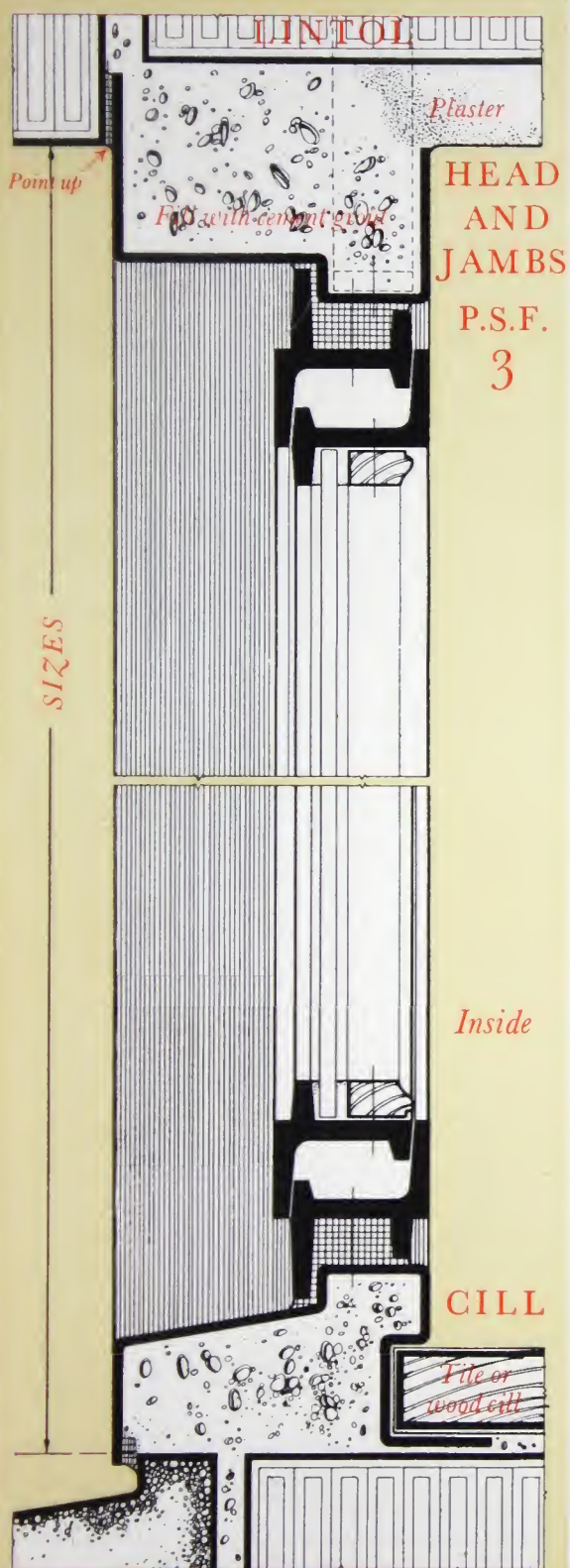
Dimensions can be varied, and almost any shape can be produced to suit special conditions.

HOPE'S STEEL

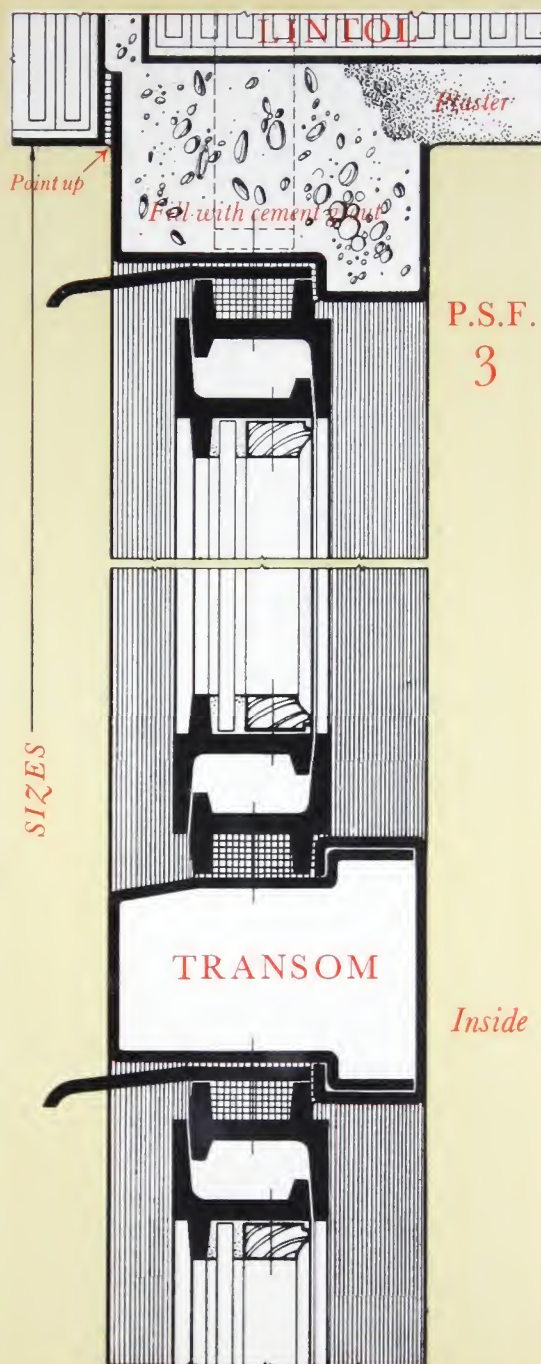


HALF FULL SIZE DETAILS

SUB-FRAMES *[continued]*

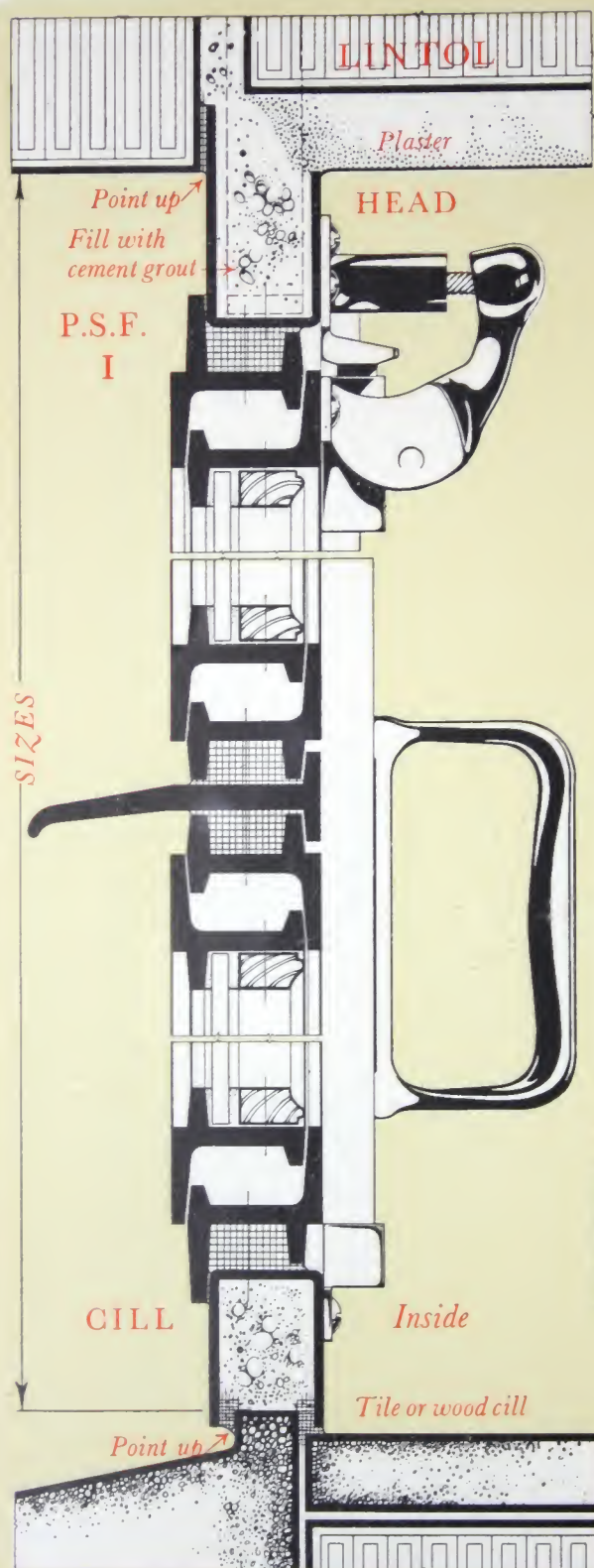


HALF F.S. DETAILS



Windows can be fixed into steel frame rebates as shown above. The remaining three details show the windows lining with inside face of sub-frame, as this is the most convenient position for the fixing of cable gear for operating transom lights.

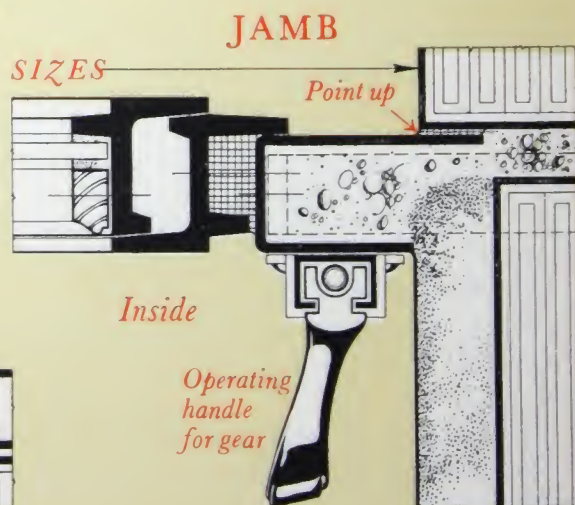
STEEL SUB-FRAMES *for*



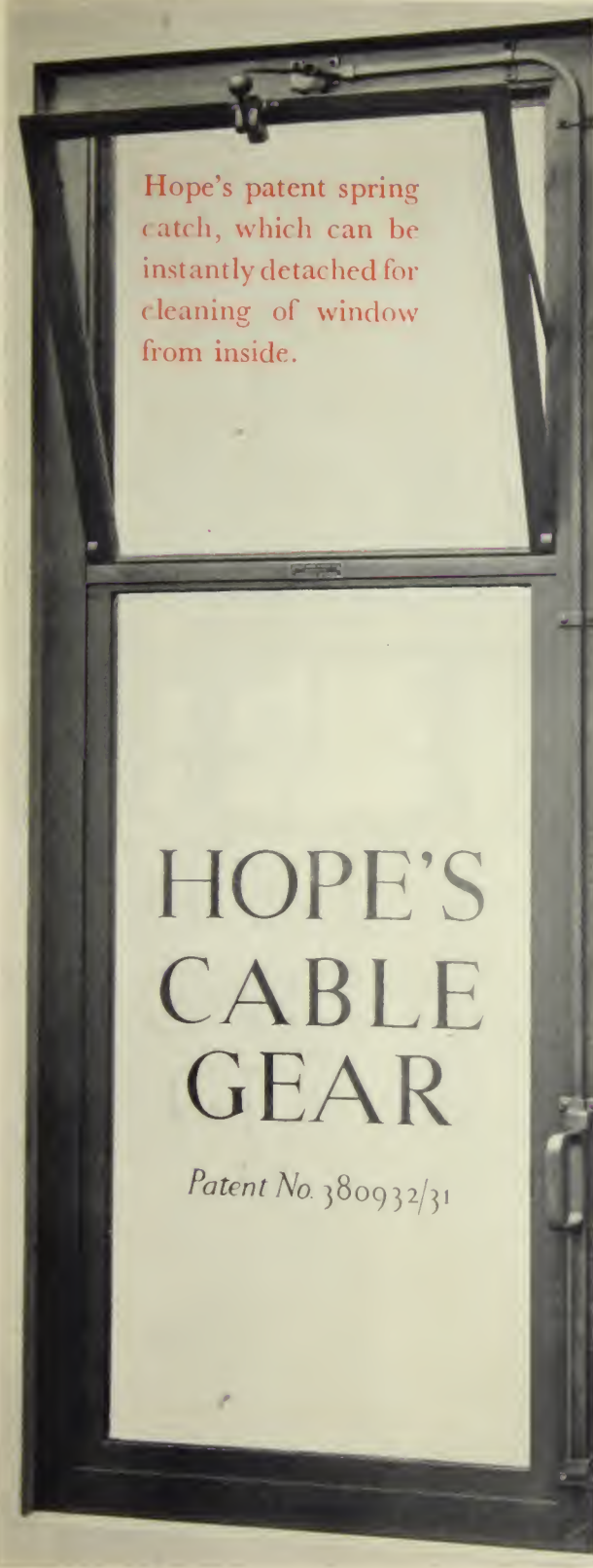
A sub-frame is necessary when cable gear is required for operating transom light ventilators. The drawing shows a sub-frame of minimum size designed for use where this type of gear is required.

Hope's Cable Gear can also be fixed to any of the sub-frames illustrated in this book, the only condition being that a width of $1\frac{1}{2}$ " is necessary for the proper anchorage of the fittings at head and jamb.

HOPE'S CABLE GEAR
is a British patent and is the
neatest and most efficient gear
of its type [Pat. No. 380932/31]



HOPE'S CABLE GEAR



Hope's patent spring catch, which can be instantly detached for cleaning of window from inside.

HOPE'S CABLE GEAR

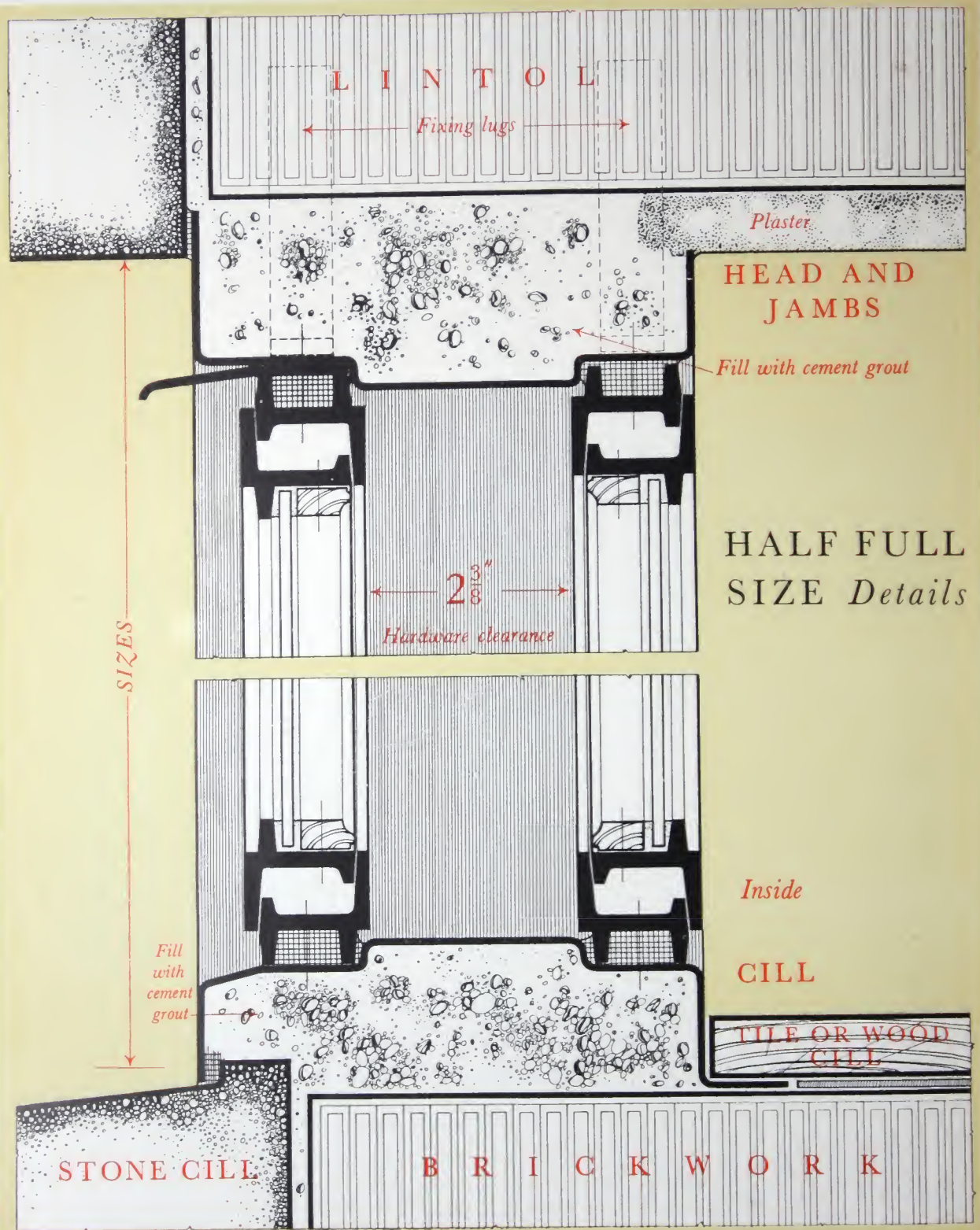
Patent No. 380932/31



Windows operated by Hope's Cable Gear are secured by a patented spring catch. No continuous strain is therefore imposed on the cable which is extremely flexible and will work satisfactorily around curves of small radius.



HOPE'S *Sub-Frames*



for Double Windows



*Hope's double sound resisting windows at South Africa House, London.
Sir Herbert Baker, R.A., Architect*

HOPE'S WINDOWS



REFUGE ASSURANCE BUILDING, MANCHESTER
Stanley Birkett, Architect

with steel Sub-Frames



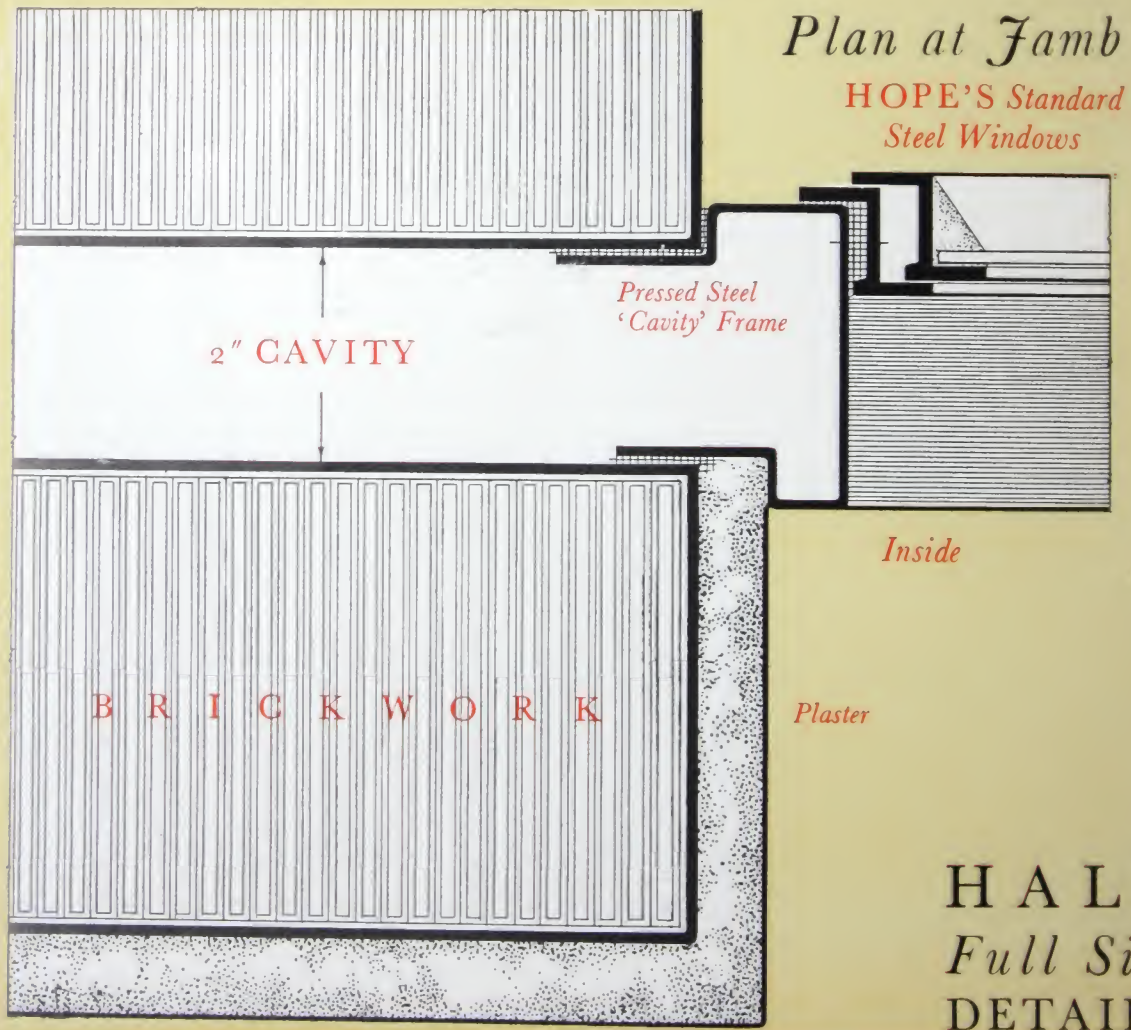
TROY COURT, RESIDENTIAL FLATS, KENSINGTON

Michael Rosenauer, Architect

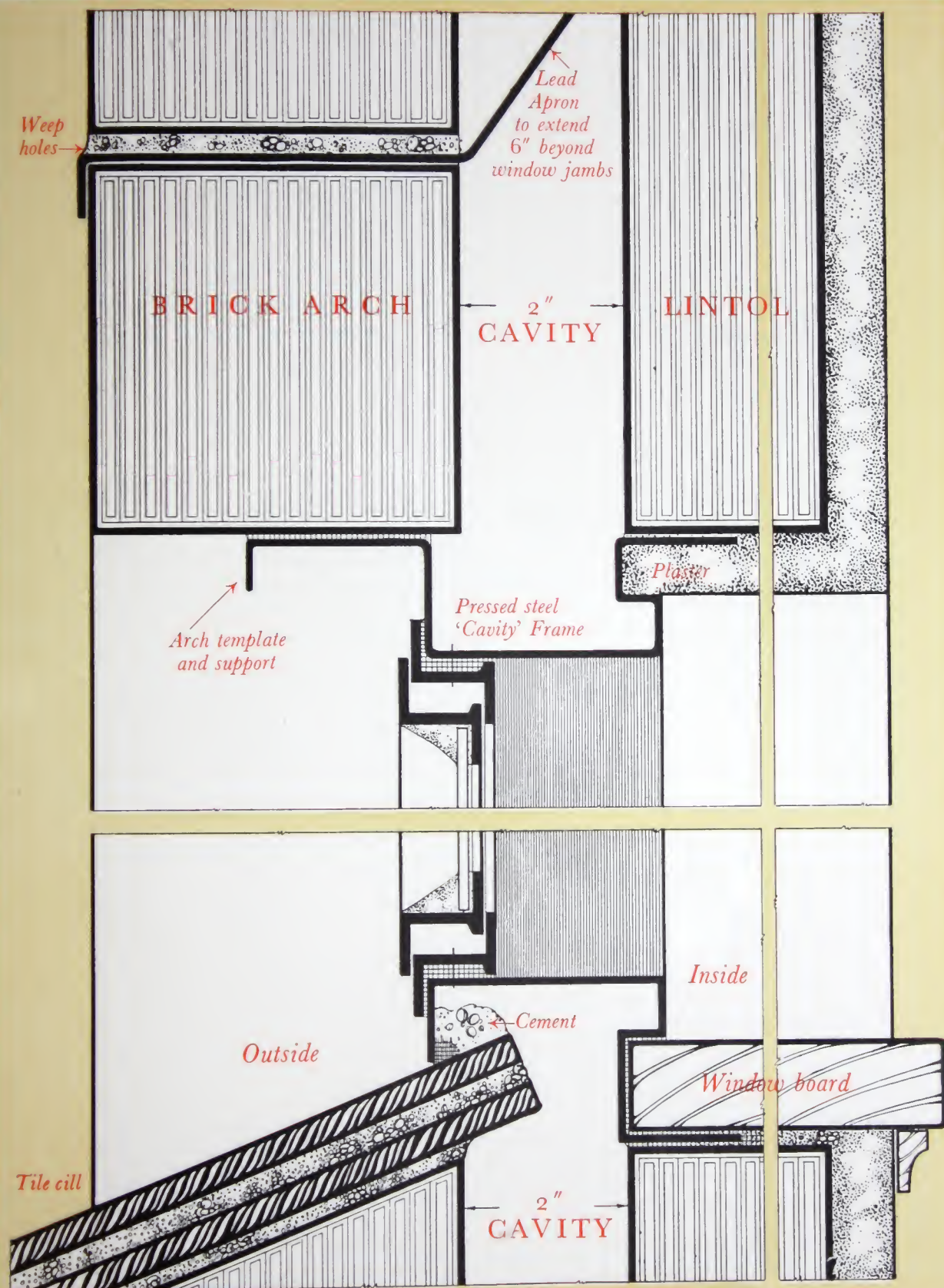
HOPE'S 'CAVITY' FRAMES

Patent applied for

1. No slates, expanded metal, or other materials are necessary to seal the cavity. Perfect insulation is assured.
2. THE FRAME serves as template for building of window openings, and provides support for flat brick arches without the need of arch bars or other reinforcement.
3. Plaster and window board is accommodated without applied loose beads to cover shrinkage, and no damp can reach inside of building.
4. No fixing lugs or horns as in wood frames, consequently there is no cutting of brickwork.
5. Standardized to suit brick, plain or roughcast finish, concrete or pre-cast stone with brick, stone or tile cills.



FOR STANDARD WINDOWS



Patent applied for

HOPE'S *Cavity Sub-Frames*

FOR USE WITH HOPE'S STANDARD WINDOWS



NO HORNS ON CORNERS AS IN WOOD FRAMES

Saves TIME, MATERIAL AND LABOUR



NO CUTTING OF BRICKWORK

HOPE'S WINDOWS & STEEL SUB-FRAMES



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Joseph, and Mewes & Davis, Architects

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LIVERPOOL

10A Church Alley

MANCHESTER

39A John Dalton Street

NEWCASTLE

5 Higham Place

BELFAST

McCue, Dick & Co. Ltd.

Duncrue Street Saw Mills

Also representatives at BRISTOL, SWANSEA, CAMBRIDGE
EXETER, NOTTINGHAM AND SOUTHAMPTON

LIST No. 135



April 1935

HOPE'S STEEL SUB- FRAMES



HOPE'S STEEL SUB-FRAMES